



**LEGEND**

- 1991 IFIM Surveys
- 1997 2-foot contour mapping
- August 2002 Survey
- 2002 Water Surface

**CONTROL POINT DATA**

I-42 (concrete and pipe) I-41 -- not found

Northing: 2281829.283  
Easting: 6667755.866  
Elevation: 94.86'

**TRANSECT DATA**

Length (2002): 1407.21' Azimuth: 123°16'22"  
Length (1991): 342.10' Azimuth: 123°16'22"

**GAGE DATA (from USGS)**

Oroville Gage:  
7/20/92: 626cfs  
11/26/02: 636cfs  
Gridley Gage:  
7/20/92: 3070cfs  
11/26/02: 2067cfs

**Notes:**

- Land surveys, depth soundings, and velocities for the 1992 IFIM surveys were conducted on July 20, 1992.
- Assumed elevations for the control points were converted to actual elevations by a level survey performed by DWR-Land and Right-of-Way in June 1996.
- The 1997 cross-section was generated from 2-foot contour topographic mapping from the U.S. Army Corps of Engineers (COE) Comprehensive Study. The actual cross-section was generated using Land Developer and AutoCad software.
- The 2002 cross-section was surveyed in June 2002. Coordinates for the IFIM control points were generated using a RTK GPS survey with a Trimble backpack 4700 receiver. Distances and elevations were measured along section with conventional total station surveying equipment.
- Elevations are referenced to the National Geodetic Vertical Datum of 1929 (NGVD29).

STATE OF CALIFORNIA  
DEPARTMENT OF WATER RESOURCES

Oroville Facilities Relicensing  
FERC Project No. 2100

SP--G2 -- Task 3  
Appendix C -- Plate 4  
Channel Changes -- 1992 - 2002  
Hour Riffle -- Transect 3  
RM 56.38

Prepared by:  
JHM -- DWR

Date  
8/20/ 04

Filename  
CrossSectionComparisons--IFIM-jhm-

Filename:N:\RAID1\Geo\EMPLOYEES\mident\FeatherRiver\Task 3 IFIM Cross Sections\CrossSectionComparisons--IFIM-jhm--2004-08-15.dwg  
Layout Name:Hour3 Plot Time: Aug 20, 2004 - 7:56am